



**Australian Government**

**Assessment Requirements for  
FWPCOT4201 Produce complex truss and  
frame plans and details using computers**

**Release: 1**

# Assessment Requirements for FWPCOT4201 Produce complex truss and frame plans and details using computers

## Modification History

Release	Comment
1	<p>Replaces equivalent unit FPICOT4201B Produce complex truss and frame plans and details using computers, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.</p> <p>Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including 'Required Skills and Knowledge, Evidence Guide and Range Statement</p>

## Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:

- prepare and document computerised plans and details of manufactured timber products in line with an individual design and set of drawing views and notes using appropriate software, systems and techniques
- produce component cutting details
- prepare a package of production and installation advice documents to support interpretation of plans and drawings.

## Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- computer software and hardware used to produce complex truss and frame plans and details including:
  - system functions and capabilities
  - available drawings
  - design limitations
  - methods to input and amend design factors and other data

- methods used to produce structural layout drawings, assembly drawings and component cutting detail
- methods to store and retrieve drawings and other data
- building and structural regulations for complex timber wall frames, roof and floor trusses
- common industry terminology for all components of complex timber wall frames, roof and floor trusses
- common industry standard layouts, spacing and sizing dimensions of individual members for complex timber wall frames, roof and floor trusses
- relationship between component loads and supports and spans, including
  - details defining mass loads and externally applied loads (wind, surrounding structures, common or special building usage)
  - dimensions defining geometry and loading of individual structural members
- timber species and types that are suitable for the manufacture of complex timber wall frames, roof and floor trusses
- industry and specific organisational:
- processes for producing computerised plans and details for complex timber wall frames, roof and floor trusses
- formats for and inclusions of documents providing production and installation advice.

## Assessment Conditions

The following resources must be made available:

- computers, keyboards and industry current software programs used to produce plans and details for complex trusses and frames
- designs, plans, drawing views and notes for complex timber wall frames, roof and floor trusses on which to base plan and details
- template documents for developing production and installation advice
- organisational procedures for preparing and documenting computerised plans and details for complex timber wall frames, roof and floor trusses.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

